

IN THE CLAIMS:

This listing of claims replaces all prior versions and listings of claims in the application:

1-10. (canceled)

11. (currently amended) A method for delivering a sealing compound from a delivery device comprising a pair of barrels including outlets and a plunger assembly slidable within the barrels from a first position to a second position for injecting components out of the barrels through the outlets, the method comprising:

introducing a delivery sheath into a puncture through tissue;

connecting the barrels to a lumen of the delivery sheath;

providing sealing components in the barrels with the plunger assembly in the first position;

and

activating an actuator coupled to a spring mechanism to release the spring mechanism, whereupon the spring mechanism automatically directs the plunger assembly towards the second position to inject the sealing components out of the barrels through the lumen of the delivery sheath and into the puncture without pauses during delivery of the components out of the barrels.

12. (original) The method of claim 11, wherein the sealing components are provided in the barrels by:

moving a valve coupled to the outlets of the barrels to a first position wherein the outlets communicate with containers comprising sealing components therein;

advancing the plunger assembly into the barrels to inject the sealing components in the barrels into the containers to mix the sealing components in the barrels with the sealing components in the containers; and

withdrawing the plunger assembly from the barrels to draw mixed sealing components from the containers into the barrels.

13. (original) The method of claim 12, wherein the sealing components in the barrels comprise one or more buffer solutions, and wherein the sealing components in the containers comprise solid polymer precursor components.

14. (original) The method of claim 13, further comprising shaking the containers to dissolve the polymer precursor components in the one or more buffer solutions.

15. (canceled)

16. (previously amended) The method of claim 11, wherein the barrels are connected to the delivery sheath via a “Y” fitting that mixes the sealing components in the barrels together.

17. (previously amended) The method of claim 11, further comprising:
introducing an occlusion member into the puncture until an expandable member on the occlusion member is disposed within a body lumen communicating with the puncture;
expanding the expandable member within the body lumen; and

manipulating the expandable member to substantially seal the body lumen from the puncture before activating the actuator to inject the sealing components into the puncture.

18. (previously amended) A method for delivering a sealing compound from a delivery device comprising a pair of barrels including outlets and a plunger assembly slidable within the barrels from a first position to a second position for injecting components out of the barrels through the outlets, the method comprising:

providing sealing components in the barrels with the plunger assembly in the first position;
activating an actuator coupled to a spring mechanism to release the spring mechanism, whereupon the spring mechanism directs the plunger assembly towards the second position to inject the sealing components out of the barrels;

introducing a delivery sheath into a puncture through tissue; and
connecting the barrels to a lumen of the delivery sheath,
wherein the actuator is activated after the delivery sheath is introduced into the puncture such that the sealing components are injected from the barrels through the lumen of the delivery sheath and into the puncture, and

wherein a retraction assembly is coupled to the delivery sheath and the occlusion member, and wherein the plunger assembly triggers a release of the retraction assembly as the plunger assembly slides towards the second position, whereupon the retraction assembly automatically withdraws the delivery sheath at least partially from the puncture to fill at least a portion of the puncture with the sealing components.

19-24. (canceled)

25. (currently amended) A method for sealing a puncture through tissue using a delivery device comprising a plurality of barrels including outlets and a plunger assembly slidable within the barrels from a first position to a second position for injecting components out of the barrels through the outlets, the method comprising:

providing sealing components in the barrels with the plunger assembly in the first position;
introducing a delivery sheath into a puncture through tissue;
connecting the barrels to a lumen of the delivery sheath; and
activating an actuator coupled to a spring mechanism to release the spring mechanism, whereupon the spring mechanism automatically directs the plunger assembly towards the second position to inject the sealing components out of the barrels into the puncture at a substantially continuous rate.

26. (previously presented) The method of claim 25, further comprising:
introducing an occlusion member into the puncture until an expandable member on the occlusion member is disposed within a body lumen communicating with the puncture;
expanding the expandable member within the body lumen; and
manipulating the expandable member to substantially seal the body lumen from the puncture before activating the actuator to inject the sealing components into the puncture.

27-28. (canceled)

29. (new) The method of claim 25, wherein the barrels are connected to the delivery sheath via a “Y” fitting that mixes the sealing components in the barrels together.

30. (new) The method of claim 25, further comprising withdrawing the delivery sheath at least partially from the puncture to fill at least a portion of the puncture with the sealing components.

31. (new) The method of claim 25, wherein the spring mechanism has a predetermined spring constant to ensure that the sealing compound is delivered in a desired time before the sealing components gel and cease to flow through the delivery sheath.

32. (new) The method of claim 26, wherein a retraction assembly is coupled to the delivery sheath and the occlusion member, and wherein the plunger assembly triggers a release of the retraction assembly as the plunger assembly slides towards the second position, whereupon the retraction assembly automatically withdraws the delivery sheath at least partially from the puncture to fill at least a portion of the puncture with the sealing components.

33. (new) A method for sealing a puncture through tissue using a delivery device comprising a plurality of barrels including outlets and a plunger assembly slidable within the barrels from a first position to a second position for injecting components out of the barrels through the outlets, the method comprising:

providing sealing components in the barrels with the plunger assembly in the first position;
introducing a delivery sheath into a puncture through tissue;
connecting the barrels to a lumen of the delivery sheath; and
activating an actuator coupled to a spring mechanism to release the spring mechanism,
whereupon the spring mechanism automatically directs the plunger assembly towards the second position to inject the sealing components out of the barrels into the puncture without pauses during delivery of the components out of the barrels.

34. (new) The method of claim 33, further comprising:
introducing an occlusion member into the puncture until an expandable member on the occlusion member is disposed within a body lumen communicating with the puncture;
expanding the expandable member within the body lumen; and
manipulating the expandable member to substantially seal the body lumen from the puncture before activating the actuator to inject the sealing components into the puncture.

35. (new) The method of claim 34, wherein a retraction assembly is coupled to the delivery sheath and the occlusion member, and wherein the plunger assembly triggers a release of the retraction assembly as the plunger assembly slides towards the second position, whereupon the retraction assembly automatically withdraws the delivery sheath at least partially from the puncture to fill at least a portion of the puncture with the sealing components.

36. (new) The method of claim 33, wherein the barrels are connected to the delivery sheath via a “Y” fitting that mixes the sealing components in the barrels together.

37. (new) The method of claim 33, further comprising withdrawing the delivery sheath at least partially from the puncture to fill at least a portion of the puncture with the sealing components.

38. (new) The method of claim 33, wherein the spring mechanism has a predetermined spring constant to ensure that the sealing compound is delivered in a desired time before the sealing components gel and cease to flow through the delivery sheath.